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(71)Applicant : TOSHIBA CERAMICS CO LTD

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(72)Inventor : SHINPO MASARU
YOSHIKAWA ATSUSHI

(54) COMPOUND FOR BONDING CERAMIC AND CERAMIC BONDED PRODUCT

(57)Abstract:

PURPOSE: To provide a compound capable of giving ceramic bonded products improved in heat resistance, chemical resistance and adhesivity by mixing (A) prescribed polyhexamethyl cyclosilazane, (B) polymethyl carbosilane, (C) silicon powder and/or SiC powder, and a solvent.

CONSTITUTION: Methyl silazane, etc., is polymerized to produce the component A having an average mol.wt. of ≥ 800 . Methyl polysilane is decomposition-polymerized to produce the component B which is a precursor of SiC. The component A, the component B and the component C comprising a powdery material having an average particle diameter of $0.2-100\mu\text{m}$ are compounded with each other at a weight ratio of $1:0.05-0.5:2-20$ to provide the compound (D), which is then mixed with a solvent such as xylene in an amount of $0.05-0.5$ times weight that of the component D to provide a compound (E) for bonding ceramics. If necessary, ceramic members used as members for treating silicon wafers are bonded with the component E and subsequently heated at $\geq 1000^\circ\text{C}$ to produce the ceramic bonded product.

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